



Content

Preface	1
Introduction to Exceed SWINDON Project (<i>S. Paré</i>)	3
The role of livestock production and aquaculture in water pollution and public health in Nigeria (<i>J.O. Olatoye</i>)	6
Soil classification for sustainable water management in Tikurwuha watershed, Blue Nile Basin, Ethiopia (<i>G. Ayalew, D. Dejene, W. Ejigu</i>)	16
Quantification of selected antibiotics and their discharge loads in wastewater treatment plants and hospitals lagoons within Lake Victoria Basin, Kenya (<i>S. Jemutai-Kimosop, Z.M. Getenga, F. Orata, V.A. Okello, J.K. Cheruiyot</i>)	23
Equilibrium and kinetics studies of sulfonamides adsorption from aqueous solution onto iron modified clay (<i>V.O. Shikuku, R. Zanella, C.O. Kowenje, F.F. Donato, N. Bandeira, W. Nyairo, O.D. Prestes</i>)	33
The dissipation of hexazinone in tropical soil under controlled laboratory conditions (<i>S.C. Lagat, D. Jaganyi, C. Southway, J.O. Lalah, C.O. Kowenje, S. Omwoma</i>)	42
Enhancement of organic dyes remediation using TiO ₂ nanofibers decorated with Au nanoparticles nanocomposite (<i>D.M. Andala, K.S. Shisia, J. Chepngetich, H. Mbuvi</i>)	51
Environmental detoxification using polyamic acid powder and nano-membranes (<i>V.A. Okello</i>)	61
Fabrication and characterization of magneto-responsive carbon nanotube-infused polysulfone nano-composites for water purification (<i>S.K. Sylvanus, A. Dickson, N. Maumih, N. Hudson</i>)	71
Decolorization of textile dye wastewater by electrocoagulation: Process optimization (<i>M. Justin, S. Fred, I. Justin, T. Mwakio</i>)	81
Removal of phosphate from the wastewater in Yaounde Municipal Lake (Cameroon) (<i>E.D. Woumfo, J.M. Siewe</i>)	90
Application of permeable reactive barrier technology for <i>in situ</i> removal of ammonium in groundwater (<i>A.S.M. Seyf-Laye, T. Ibrahim, C. Honghan, D.B. Gbandi</i>)	100
Arsenic removal from water by adsorption using low cost activated carbon prepared from local wastes (<i>I. Tchakala, T. Kodom, A.S.M. Seyf-Laye, B.L. Moctar, D.B. Gbandi</i>)	110
Psychological principles as a way of improving the sustainable use of water (<i>O.O. Olakitan</i>)	120